WHAT IS CLAIMED IS:

1	1. A method comprising the steps of:
2	identifying an operating characteristic based on a number of commands queued in an
3	instruction buffer; and
4	adjusting a system characteristic based on the operating characteristic, wherein a power
5	consumption is modified based on the system characteristic.
1	2. The method as in Claim 1, wherein the steps are performed through set of discrete components.
1 1 1 2	3. The method as in Claim 1, wherein the commands queued in the command buffer, of the number of commands, include instructions to be processed by a processor associated with the system.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4. The method as in Claim 1, wherein the instructions include display instructions.
1 2	5. The method as in Claim 1, wherein the operating characteristic includes a number of pending operations.
1 2	6. The method as in Claim 1, wherein the operating characteristic includes fill rate associated with the instruction buffer.
1 2	7. The method as in Claim 1, wherein the operating characteristic includes a type of instructions in the instruction buffer.
1 2	8. The method as in Claim 1, wherein the step of adjusting the system characteristic includes altering the number of bits used to represent multimedia data.
	and the manufact of one about to represent mutumouta data.

18. The method as in Claim 16, wherein a number of bits used to represent multimedia data is

changed to match a change in the nominal power.

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- 1 19. The method as in Claim 18, wherein the multimedia data includes video data.
- 1 20. The method as in Claim 18, wherein the multimedia data includes audio data.

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- 1 21. The method as in Claim 1, wherein the operating characteristic is based on buffer fullness.
- 1 22. The method as in Claim 21, wherein the step of adjusting the system characteristic includes 2 reducing a clock speed when the buffer fullness is less than a predetermined buffer fullness.
 - 23. The method as in Claim 21, wherein the step of adjusting the system characteristic includes reducing a maximum power provided to the system when the buffer fullness is less than a predetermined buffer fullness.
 - 24. The method as in Claim 21, wherein the step of adjusting the system characteristic includes reducing a number of bits to represent multimedia data when the buffer fullness is less than a predetermined buffer fullness.
- 25. The method as in Claim 21, wherein the step of adjusting the system characteristic includes increasing a clock speed when the buffer fullness is greater than a predetermined buffer fullness.
- 26. The method as in Claim 21, wherein the step of adjusting the system characteristic includes increasing a maximum power provided to the system when the buffer fullness is greater than a predetermined buffer fullness.

- 1 27. The method as in Claim 21, wherein the step of adjusting the system characteristic includes
- 2 increasing a number of bits to represent multimedia data when the buffer fullness is greater
- 3 than a predetermined buffer fullness.

1	28. A system comprising:
2	an instruction buffer to store pending instructions;
3	an buffer monitor to:
4	track a buffer statistic;
5	provide a buffer status of said buffer statistic to a power threshold;
6	a power module to initiate a power conservation feature based on said buffer status.
1	29. The system as in Claim 28, further including a threshold register to store a statistic threshold
	30. The system as in Claim 29, wherein said buffer status includes a comparison between said buffer statistic and said statistic threshold.
	31. The system as in Claim 28, wherein said pending instructions include multimedia instructions.
and the same of th	32. The system as in Claim 31, wherein said multimedia instructions include display instructions.
1 2	33. The system as in Claim 31, wherein the multimedia instructions include audio processing instructions.
1 2	34. The system as in Claim 28, wherein said buffer statistic includes a fullness of said instruction buffer.
1	35. The system as in Claim 28, wherein said buffer statistic includes a number of pending
2	instructions in said instruction buffer.

- 1 36. The system as in Claim 28, wherein said buffer statistic includes a rate of change in a number of
- 2 pending instructions in said instruction buffer.
- 1 37. The system as in Claim 28, wherein said buffer statistic includes types of instructions in said
- 2 instruction buffer.

- 38. A computer readable medium tangibly embodying a program of instructions to manipulate a data processor to:
- identify an operating characteristic based on a number of instructions queued in an

instruction buffer; and

- adjust a system characteristic based on the operating characteristic, wherein a power consumption is modified based on the system characteristic.
- 39. The computer readable medium as in Claim 38, wherein the operating characteristic includes a rate of change in the number of instructions queued in the instruction buffer.
 - 40. The computer readable medium as in Claim 38, wherein the operating characteristic includes a type of instructions of the instructions queued in the instruction buffer.
 - 41. The computer readable medium as in Claim 38, wherein the system characteristic includes a number of bits used to represent multimedia data.
 - 42. The computer readable medium as in Claim 41, wherein the system characteristic includes a clock speed used to process the instructions.
- 1 43. The computer readable medium as in Claim 38, wherein the system characteristic includes a supported power.